



OCT 17 2003

Application Serial No.: 10/620,749

Attorney Docket No: 5701-01293

PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****In re Application of:**

Shan CONG et al.

Group:

Serial No.: 10/620,749

Examiner:

Filed: 15 July 2003

Attorney Docket No.: 5701-01293

For: ROAD CURVATURE ESTIMATION AND AUTOMOTIVE TARGET STATE
ESTIMATION SYSTEM /**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(b)(1)**

15 October 2003

**Mail Stop DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**

Dear Sir:

Applicant submits this Statement in accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, and more particularly in accordance with 37 C.F.R. §1.97(b)(1), i.e., filing the statement within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d). Enclosed herewith is the List of References Cited by Applicant (PTO-1449), including copies of all non-patent literature listed thereon. Copies of U.S. patents and U.S. patent application publications are not included herewith in accordance with the waiver published in a Pre-OG Notice dated 07/11/2003 which applies to all applications filed after June 30, 2003.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. section 1.8(a))

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

deposited with the United States Postal Service
with sufficient postage as first class mail in an
envelope addressed to Mail Stop DD
Commissioner for Patents, P.O. Box 1450,
Alexandria, VA 22313-1450.

FACSIMILE

transmitted by facsimile to the Patent and
Trademark Office to FAX number _____.

Signature

Kurt L. Van Voorhies

(type or print name of person certifying)

Date: 15 October 2003

As all the references listed on attached Form PTO-1449 are in English, under 37 C.F.R. §1.98(a)(3), no further commentary is believed to be necessary. Applicant respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

Applicant, by submitting this Information Disclosure Statement, is attempting to fully comply with the duty of candor and good faith mandated by 37 C.F.R. §1.56. As such, this Information Disclosure Statement is not intended to constitute an admission that any of the enclosed references, or other information referred to therein, is otherwise "material to patentability," as that term is defined in that section.

Respectfully submitted,



Kurt L. Van Voorhies
Registration No. 38,643
Phone: 248-364-2100
Facsimile: 248-364-2200

Dinnin & Dunn, P.C.
2701 Cambridge Court, Suite 500
Auburn Hills, MI 48326
5701-01293
15 October 2003

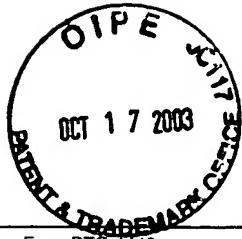
Enclosure



Based on Form PTO-1449 (3/90)			ATTY. DOCKET NO. 5701-01293	SERIAL NO. 10/620,749	Page 1		
			APPLICANT Shan CONG et al.				
			FILING DATE 15 July 2003	15 October 2003			
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
	AA	2,709,804	5/31/1955	Chance et al.	342	96	
	AB	3,177,485	4/6/1965	Taylor, Jr.	342	96	
	AC	3,603,994	9/7/1971	Williams et al.	342	96	
	AD	3,699,573	10/17/1972	Andrews et al.	342	96	
	AE	3,725,918	4/3/1973	Fleischer et al.	343	5 EM	
	AF	3,869,601	3/4/1975	Metcalf	392	450	
	AG	3,971,018	7/20/1976	Isbister et al.	343	5 CD	
	AH	4,623,966	11/18/1986	O'Sullivan	364	461	
	AI	5,051,751	9/24/1991	Gray	342	107	
	AJ	5,138,321	8/11/1992	Hammer	342	36	
	AK	5,170,440	12/8/1992	Cox	382	199	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No
	AL						
	AM						
	AN						
	AO						
	AP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR	Dickmanns, E.D.; Mysliwetz, B.D.; "Recursive 3-D Road and Relative Ego-State Recognition," <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , Vol. 14, No. 2, Feb. 1992, pp 199-213.					
	AS	Hsu, J.C.; Chen, W. L.; Lin, R. H; Yeh, E. C.; "Estimations of previewed road curvatures and vehicular motion by a vision-based data fusion scheme," <i>Machine Vision and Applications</i> , Vol. 9, 1997, p. 179-192.					
	AT	Barber, P.A.; King, P.; Richardson, M.; "Road lane trajectory estimation using yaw rate gyroscopes for intelligent vehicle control," <i>Transactions on the Institute of Measurement and Control</i> , Vol. 20, No. 2, 1998, pp. 59-66.					
EXAMINER			DATE CONSIDERED				
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							



Based on Form PTO-1449 (3/90)			ATTY. DOCKET NO. 5701-01293	SERIAL NO. 10/620,749	Page 2		
			APPLICANT Shan CONG et al.				
			FILING DATE 15 July 2003	15 October 2003			
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
	BA	5,202,691	4/13/1993	Hicks	342	90	
	BB	5,307,289	4/26/1994	Harris	364	400	
	BC	5,314,037	5/24/1994	Shaw et al.	180	169	
	BD	5,343,206	8/30/1994	Ansaldi et al.	342	70	
	BE	5,402,129	3/28/1995	Gellner et al.	342	70	
	BF	5,406,289	4/11/1995	Barker et al.	342	96	
	BG	5,471,214	11/28/1995	Faibish et al.	342	70	
	BH	5,530,651	6/25/1996	Uemura et al	364	461	
	BI	5,537,119	7/16/1996	Poore, Jr.	342	96	
	BJ	5,587,929	12/24/1996	League et al.	342	159	
	BK	5,594,414	1/14/1997	Namngani	340	436	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No
	BL						
	BM						
	BN						
	BO						
	BP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	BR	Schiffmann, J.K.; Widmann, G.R.; "Model-Based Scene Tracking Using Radar Sensors for Intelligent Automotive Vehicle Systems," IEEE International Radar Conference, 1998, pp. 421-426.					
	BS	Jilkov, V.P.; Angelova, D.S.; Semerdjiev, Tz.A.; "Design and Comparison of Mode-Set Adaptive IMM Algorithms for Maneuvering Target Tracking," <i>IEEE Transactions on Aerospace and Electronic Systems</i> , Vol. 35, No. 1, Jan. 1999, pp. 343-350.					
	BT	Tsang, S. H.; Hoare, E. G; Hall, P. S.; Clarke, N. J.; "Automotive Radar Image Processing To Predict Vehicle Trajectory," IEEE International Radar Conference, 1999, p. 867-870.					
EXAMINER			DATE CONSIDERED				
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							



Based on Form PTO-1449 (3/90)			ATTY. DOCKET NO. 5701-01293	SERIAL NO. 10/620,749	Page 3		
			APPLICANT Shan CONG et al.				
			FILING DATE 15 July 2003	15 October 2003			
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
	CA	5,598,164	1/28/1997	Reppas et al.	342		
	CB	5,627,768	5/6/1997	Uhlmann et al.	702		
	CC	5,631,639	5/20/1997	Hibino et al.	340		
	CD	5,633,642	5/27/1997	Hoss et al.	342		
	CE	5,657,251	8/12/1997	Fiala	343		
	CF	5,668,739	9/16/1997	League et al.	382		
	CG	5,684,473	11/4/1997	Hibino et al.	340		
	CH	5,689,264	11/18/1997	Ishikawa et al.	342		
	CI	5,703,593	12/30/1997	Campbell et al.	342		
	CJ	5,926,126	7/20/1999	Engelman	342		
	CK	5,948,043	9/7/1999	Mathis	701		
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No
	CL						
	CM						
	CN						
	CO						
	CP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	CR	Jula, H.; Kosmatopoulos, E.; Ioannou, P.; "Collision Avoidance Analysis for Lane Changing and Merging," Technical Report, University of Southern California, 1999.					
	CS	Lin, C-F.; Ulsoy, A.G.; LeBlanc, D.J.; "Vehicle Dynamics and External Disturbance Estimation for Vehicle Path Prediction," <i>IEEE Transactions on Control Systems Technology</i> , Vol. 8, No. 3, May, 2000, pp 508-518.					
	CT	Ke, C-C.; Herrero, J.G.; Llinas, J.; "Comparative Analysis of Alternative Ground Target Tracking Techniques," in <i>International Conference on Information Fusion</i> , Vol. 2, 2000, pp. WeB5:3-10.					
EXAMINER			DATE CONSIDERED				
<p>* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							



Based on Form PTO-1449 (3/90)			ATTY. DOCKET NO. 5701-01293	SERIAL NO. 10/620,749	Page 4		
			APPLICANT Shan CONG et al.				
			FILING DATE 15 July 2003	15 October 2003			
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
	DA	5,959,552	9/28/1999	Cho	340	903	
	DB	5,959,574	9/28/1999	Poore, Jr.	342	96	
	DC	5,983,161	11/9/1999	Lemelson et al.	701	301	
	DD	6,070,121	5/30/2000	Matsuda	701	205	
	DE	6,085,151	7/4/2000	Farmer et al.	342	70	
	DF	6,134,509	10/17/2000	Furusho et al.	702	167	
	DG	6,161,071	12/12/2000	Shuman et al.	701	48	
	DH	6,198,426 B1	3/6/2001	Tamatsu et al.	342	70	
	DI	6,226,389 B1	5/1/2001	Lemelson et al.	382	104	
	DJ	6,275,231 B1	8/14/2001	Obradovich	345	349	
	DK	6,275,773 B1	8/14/2001	Lemelson et al.	701	301	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No
	DL						
	DM						
	DN						
	DO		.				
	DP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	DR	Miyahara, S.; "A Method for Radar-Based Target Tracking in Non-Uniform Road Condition," SAE 2003 World Congress, 2003-01-0013, 2003.					
	DS	Karlsson, R.; Jansson, J.; Gustafsson, F.; "Model-based statistical tracking and decision making for collision avoidance application," Technical Report, Linkoping University, LiTH-ISY-R-2492, Feb. 2003.					
	DT	Coue, C.; Fraichard, Th.; Bessiere, P.; Mazer, E.; "Using Bayesian Programming for Multi-Sensor Multi-Target Tracking in Automotive Applications," <i>Proceedings of the IEEE Int. Conf. on Robotics and Automation</i> , Taipei, Taiwan, May 2003.					
EXAMINER			DATE CONSIDERED				
<p>* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							



Based on Form PTO-1449 (3/90)			ATTY. DOCKET NO. 5701-01293	SERIAL NO. 10/620,749	Page 5		
			APPLICANT Shan CONG et al.				
			FILING DATE 15 July 2003	15 October 2003			
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
	EA	6,343,253 B1	1/29/2002	Matsuura et al.	701	200	
	EB	6,370,475 B1	4/9/2002	Breed et al.	701	301	
	EC	6,405,132 B1	6/11/2002	Breed et al.	701	301	
	ED	6,420,997 B1	7/16/2002	Cong	342	70	
	EE	6,470,272 B2	10/22/2002	Cong et al.	701	301	
	EF	2002/0022927 A1	2/21/2002	Lemelson et al.	701	301	
	EG						
	EH						
	EI						
	EJ						
	EK						
FOREIGN PATENT DOCUMENTS						TRANSLATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Yes No
	EL						
	EM						
	EN						
	EO						
	EP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	ER						
	ES						
	ET						
EXAMINER			DATE CONSIDERED				
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							